| Ref<br>#   | Hits | Search Query   | DBs                | Default<br>Operator | Plurals | Time Stamp       |
|------------|------|--|--------------------|---------------------|---------|------------------|
| S1         | 1    | (efficient with bandwidth with allocation with control with channel)           | USPAT              | OR                  | OFF     | 2006/01/04 09:12 |
| S2         | 0    | (dynamic near loop near<br>bandwidth near multiplex\$3)                        | USPAT              | OR                  | OFF     | 2005/12/30 16:12 |
| S3         | 0    | (loop near bandwidth near multiplex\$3)  | USPAT              | OR                  | OFF     | 2005/12/30 16:12 |
| 54         | 1    | (dynamic near loop near bandwidth near multiplex\$3)                           | US-PGPUB;<br>USPAT | OR                  | OFF     | 2005/12/30 16:12 |
| S5         | 1    | (loop near bandwidth near multiplex\$3)  | US-PGPUB;<br>USPAT | OR                  | OFF     | 2005/12/30 16:13 |
| S6         | 19   | (dynamic near bandwidth near allocat\$4 near multiplex\$3)                     | US-PGPUB;<br>USPAT | OR                  | OFF     | 2005/12/30 16:18 |
| <b>S</b> 7 | 577  | (multiplex\$3 with TDM with (bit "adj." sequential with data))                 | US-PGPUB;<br>USPAT | OR                  | OFF     | 2005/12/30 16:19 |
| S8         | 1    | S7 with (bandwidth with allocation)  | US-PGPUB;<br>USPAT | OR                  | OFF     | 2005/12/30 16:19 |
| S9         | 9    | (TDM and bandwidth and allocation).ab.   | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:24 |
| S10        | 696  | 370/442.ccls.  | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:24 |
| S11        | 8    | S10 and (combin\$4 with bit with stream\$1)                                    | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:27 |
| S12        | 2    | S10 and (combin\$4 with bit with stream\$1) and (TDM)                          | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:35 |
| S13        | 1    | (combin\$4 with bit with stream\$1) and (TDM with bandwidth with allocat\$4)   | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:36 |
| S14        | 1857 | (combin\$4 and bit and stream\$1)<br>and (TDM and bandwidth and<br>allocat\$4) | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:52 |
| S15        | 52   | S14 and 370/442.ccls.  | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:37 |
| S16        | 0    | (combin\$4 near first near second near bit near stream\$1 near control)        | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:58 |
| S17        | 0    | (combin\$4 near first near second near bit near stream\$1 near TDM)            | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:58 |
| S18        | 5    | (combin\$4 near first near second near bit near stream\$1)                     | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 11:59 |
| S19        | 14   | (combin\$4 with bit with stream with TDM)                                      | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 12:00 |
| S20        | 5    | S19 and (bandwidth with allocat\$4)  | US-PGPUB;<br>USPAT | OR                  | OFF     | 2006/01/03 12:05 |

| 024 | 10   | 1,0  | 110 202112         |    |     | 2005/01/02 12 12 |
|-----|------|--|--------------------|----|-----|------------------|
| S21 | 10   | (first with second with bit with stream with TDM)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 12:13 |
| S22 | 1    | (first with second with bit with stream with TDM with bandwidth with allocat\$4)                                       | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 12:17 |
| S23 | 1    | "5467344".pn.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 12:17 |
| S24 | 1    | "6061392".pn.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 12:19 |
| S25 | 1    | "6075784".pn.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:35 |
| S26 | 3614 | (TDM or ("time division<br>multiplex\$3")) and (frame\$3) and<br>channel\$4 and control\$4 and<br>("b/w" or bandwidth) | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:36 |
| S27 | 1219 | S26 and (allocat\$4) and (scrambl\$4 or interleav\$4 or mixing)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:39 |
| S28 | 0    | S27 and (combin\$4 with "bit sequen\$4 data")  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:40 |
| S29 | 0    | S27 and (combin\$4 with "(two or 2) to (one or 1) multiplexer")  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:41 |
| S30 | 0    | S27 and ( "(two or 2) to (one or 1) multiplexer")  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:41 |
| S31 | 6    | S27 and (combining with first with second with stream\$1)  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:46 |
| S32 | 456  | S27 and (combining and input and output)   | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:52 |
| S33 | 731  | S27 and "370"/\$.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 13:53 |
| S34 | 34   | S27 and "370"/442.ccls.  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 15:58 |
| S35 | 0    | (370/473.ccls.) and (TDM with "serial data")   | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 15:59 |
| S36 | 4    | (370/473.ccls.) and (TDM and "serial data")  | US-PGPUB;<br>USPAT | OR | OFF | 2006/01/03 15:59 |
| S37 | 1106 | 370/466.ccls.  | USPAT              | OR | OFF | 2006/01/04 09:20 |
| S38 | 4    | S37 and (TDM and frame\$3 and unframe\$3)  | USPAT              | OR | OFF | 2006/01/04 12:20 |
| S39 | 246  | 370/476.ccls.  | USPAT              | OR | OFF | 2006/01/04 09:20 |
| S40 | 0    | S39 and (TDM and frame\$3 and unframe\$3)  | USPAT              | OR | OFF | 2006/01/04 09:20 |
| S41 | 40   | S39 and (TDM )   | USPAT              | OR | OFF | 2006/01/04 11:23 |
| S42 | 0    | ("60091006".pn.)".uref'  | USPAT              | OR | OFF | 2006/01/04 11:24 |
| S43 | 0    | ("60091006".pn.)   | USPAT              | OR | OFF | 2006/01/04 11:23 |

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|-----|-----|---|-------|----|-----|------------------|
| S44 | 1   | ("6009106".pn.)".uref"  | USPAT | OR | OFF | 2006/01/04 11:24 |
| S45 | 1   | "6009106".pn.   | USPAT | OR | OFF | 2006/01/04 11:24 |
| S46 | 20  | ("6009106").URPN.   | USPAT | OR | OFF | 2006/01/04 11:29 |
| S47 | 1   | "5467344".pn.   | USPAT | OR | OFF | 2006/01/04 11:29 |
| S48 | 13  | ("5467344").URPN.   | USPAT | OR | OFF | 2006/01/04 11:31 |
| S49 | 286 | 370/498.ccls.   | USPAT | OR | OFF | 2006/01/04 12:20 |
| S50 | 709 | 370/535.ccls.   | USPAT | OR | OFF | 2006/01/04 12:20 |
| S51 | 0   | S50 and (TDM and frame\$3 and unframe\$3)   | USPAT | OR | OFF | 2006/01/04 12:21 |
| S52 | 119 | S50 and (TDM)   | USPAT | OR | OFF | 2006/01/04 12:21 |
| S53 | 118 | 370/542.ccls.   | USPAT | OR | OFF | 2006/01/04 12:22 |
| S54 | 262 | 370/538.ccls.   | USPAT | OR | OFF | 2006/01/04 12:22 |
| S55 | 40  | S54 and (TDM)   | USPAT | OR | OFF | 2006/01/04 12:58 |
| S56 | 4   | 370/537.ccls. and ((interleav\$3 or combin\$4) with TDM with (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 13:39 |
| S57 | 7   | 370/466.ccls. and ((interleav\$3 or combin\$4) with TDM with (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 13:54 |
| S58 | 1   | "6560457".pn.   | USPAT | OR | OFF | 2006/01/04 16:44 |
| S59 | 7   | 370/537.ccls. and ((interleav\$3 or combin\$4) same TDM with (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 13:55 |
| S60 | 8   | 370/466.ccls. and ((interleav\$3 or combin\$4) same TDM with (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 13:55 |
| S61 | 22  | 370/466.ccls. and ((interleav\$3 or combin\$4) same TDM same (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 13:55 |
| S62 | 11  | 370/537.ccls. and ((interleav\$3 or combin\$4) same TDM same (signal\$4 or control\$3)) | USPAT | OR | OFF | 2006/01/05 14:58 |
| S63 | 44  | (TDM same stream same control\$4 same bandwidth)  | USPAT | OR | OFF | 2006/01/05 15:26 |
| S64 | 1   | "6252910".pn.   | USPAT | OR | OFF | 2006/01/05 15:22 |
| S65 | 0   | (TDM same stream same<br>(control\$4 with "bandwidth<br>allocat\$4"))                   | USPAT | OR | OFF | 2006/01/05 15:26 |
| S66 | 0   | (TDM same (control\$4 with "bandwidth allocat\$4"))                                     | USPAT | OR | OFF | 2006/01/05 15:27 |
| S67 | 0   | ( (control\$4 with "bandwidth allocat\$4"))   | USPAT | OR | OFF | 2006/01/05 15:27 |
| S68 | 0   | (control\$4 with "bandwidth allocat\$4")  | USPAT | OR | OFF | 2006/01/05 15:27 |
|     |     |   |       |    |     |                  |

| S69 | 56106 | (control\$4 with bandwidth withl allocation) | USPAT | OR | OFF | 2006/01/05 15:27 |
|-----|-------|--|-------|----|-----|------------------|
| S70 | 870   | (control\$4 with bandwidth with allocation)  | USPAT | OR | OFF | 2006/01/05 15:27 |
| S71 | 11    | S70 same TDM                                 | USPAT | OR | OFF | 2006/01/05 15:27 |